PATENT COOPERATION T ATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
8758PCT	FOR FURTHER AC	TION	See Form PCT/IPEA/416	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04/21621	07 July 2004 (07 07 2004	45	6	
international Patent Classification (IPC) or national classification and IPC			07 July 2003 (07.07.2003)	
IPC(7): G06F 12/14 and US C1: 713/185				
Applicant	*			
CRYPTOGRAPHY RESEARCH				
Examining Authority under	Article 35 and transmit	ted to the applicant ac	shed by this International Preliminar cording to Article 36.	
2. This REPORT consists of a total of \(\frac{1}{2}\) sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
	t and to the Internation			
and Section 60	for sneets containing re 17 of the Administrative	ectifications authorize Instructions).	re been amended and are the basis of ad by this Authority (see Rule 70.16	
that goes beyo	upersede earlier sheets, nd the disclosure in the the Supplemental Box.	but which this Author international application	rity considers contain an amendment ion as filed, as indicated in item 4 of	
b. (sent to the Interna	ntional Bureau only) a to	otal of (indicate type a	nd number of electronic carrier(s))	
, containing	; a sequence listing an Supplemental Box Re	id/or tables related ti	hereto, in electronic form only, as Listing (see Section 802 of the	
4. This report contains indication	ons relating to the follow	ving items:		
Box No. I Basi	is of the report			
Box No. II Prio	rity		•	
Box No. III Non	establishment of opinio	on with regard to nove	lty, inventive step and industrial	
<u> </u>	of unity of invention			
Box No. V Reas	soned statement under strial applicability: citati	Article 35(2) with r	regard to novelty, inventive step or supporting such statement	
	ain documents cited	+ 	sapparing sacrament	
Box No. VII Certa	ain defects in the interns	ational application		
Box No. VIII Certa	in observations on the i	international application	on	
Date of submission of the demand		Date of completion of	this report	
02 February 2005 (02.02.2005)		02 December 2005 (02.1	12 2005)	
Name and mailing address of the IPEA/US			Kesa Vion	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		•		
P.O. Box 1450		Emmanuel Moise		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	1.	Telephone No. 305-390	o [`]	
orm PCT/IPEA/409 (cover sheet)(April 2005				

INTERNATIONAL r AELIMINARY REPORT ON PATENTABILITY

national a	pplication No.
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PCT/US04/21621

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are no annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-120 as originally filed/furnished
pages* received by this Authority on pages* NONE received by this Authority on
<u> </u>
the claims: pages 122 and 123 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* 121 received by this Authority on 14 July 2005 (14.07.2005)
pages* NONE received by this Authority on
the drawings:
pages 1-5 as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
If item 4 applies, some or all of those sheets may be marked "superseded."
rm PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

rnational application No.	
PCT/US04/21621	

Box No. IV Lack of unity of invention
1. In response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
restricted the claims.
paid additional fees.
paid additional fees under protest, and, where applicable, the protest fee
paid additional fees under protest but the applicable protest fee was not paid
neither restricted the claims nor paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
complied with.
not complied with for the following reasons:
Group 1, claims 1-4 and 11, drawn to a method for limiting access to non-volitile digital storage contained in a device executing instructions in a Touring-complete interperter.
Group 2, claims 5-7, drawn to a digital optical storage medium containing encrypted audiovisual content playback on any of a plurality of device architectres.
Group 3, claims 8-10, drawn to an automated method for enabling a playback device containing a non-volatile memory to determine wether permission to use the digital opical disk media has been revoked.
The inventions listed as groups 1-3 do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2 they lack the same or corresponding special technical features for the following reasons: Group 1 claim limitations directed to access control via authentication of a hash value of executables, Group 2 claim limitations directed to an optical disk with an executable that upon playback determines a security weakness of the playback device, Group 3 claim limitations directed to limiting access to a digital storage medium via determining if an instance of permission to utilize the medium has been revoked by comparison of a read identifier with a revocation list.
No generic linking claim is found.
The 3 claim groups are independent and distinct from one another as per MPEP Sec. 802.21 and within the meaning of 35 USC 121.
4. Consequently, this report has been established in respect of the following parts of the international application:
all parts
the parts relating to claims Nos. <u>1-4, 11</u>

Form PCT/IPEA/409 (Box No. IV) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Form PCT/IPEA/409 (Box No. V) (April 2005)

International application No. PCT/US04/21621

applicability, additions und cx	olanations support	ing such statement	step or industrial
1. Statement			
Novelty (N)	Claims 1-4.	Ц	YES
	Claims NON	IE	NO
Inventive Step (IS)	Claims 1-4.	u	YES
	Claims NON		
Industrial Applicability (IA)	Claims <u>1-4, 1</u>	11	YES
	Claims NON		NO NO

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We claim

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- 1. A method for regulating access to nonvolatile digital storage contained in a device executing instructions in a Turing-complete interpreter, said method comprising
- (a) receiving a request from said instructions being executed, wherein said request specifies:
 - (i) a portion of said storage for which access is requested, and
 - (ii) a plurality of additional executable instructions:
- (b) applying a cryptographic hash function to said additional executable instructions to obtain a hash value;
- (c) authenticating said hash value; and
- (d) provided that said authentication is successful, enabling access by said instructions being executed to said requested portion of said storage while executing said additional executable instructions.
- 2. The method of claim 1 wherein said step of authenticating comprises comparing said hash value with a hash value stored in said nonvolatile storage.
- 3. The method of claim 1 wherein said step of authenticating comprises verifying a digital signature provided by said instructions being executed.
- 4. The method of claim 1 wherein said request includes a pointer to said additional executable instructions in memory accessible by said instructions being executed and contained in said device.
- 5. A digital optical disc medium containing encrypted audiovisual content for playback on any of a plurality of device architectures, said digital optical disc medium comprising program logic configured to:
- (a) identify at least one characteristic of a device executing said program logic;